

Listing of Claims

1. (currently amended) A golf club head comprising a part made of a martensitic iron alloy which has:

- a nickel (Ni) content of from 9.0 to 12.0 weight %;
- a chromium (Cr) content of from 11.0 to 12.5 weight %;
- a titanium (Ti) content of from 1.5 to 1.8 weight %;
- a molybdenum (Mo) content of from 0.75 to 1.2 weight %;
- a carbon (C) content of not more than 0.05 weight %;
- a phosphorus (P) content of not more than 0.015 weight %;
- a silicon (Si) content of not more than 0.25 weight %;
- a magnesium (Mg) content of not more than 0.25 weight %; and
- a sulfur (S) content of not more than 0.01 weight %, and
said martensitic iron alloy having martensitic structure which makes up 90% or more of the total weight thereof.

2. (currently amended) ~~A golf~~ The golf club head according to claim 1, wherein the ratio (X/Y) of the nickel (Ni) content X to the titanium (Ti) content Y is in a range of from 5.5 to 7.5.

3. (canceled)

4. (currently amended) ~~A golf~~ The golf club head according to claim 1, wherein said part is a casting of the martensitic iron alloy.

5. (currently amended) A golf club head according to claim 1 or 4, which is a wood-type hollow club head comprising a ~~platy~~ face ~~portion~~ plate joined to a main body, and said part forms the face ~~portion~~ plate.

6. (withdrawn) A method of manufacturing a golf club head composed of metal parts, the methods comprising making at least one of the metal parts by casting an iron alloy, wherein the

iron alloy has: a nickel (Ni) content of from 9.0 to 12.0 weight %; a chromium (Cr) content of from 11.0 to 12.5 weight %; a titanium (Ti) content of from 1.5 to 1.8 weight %; a molybdenum (Mo) content of from 0.75 to 1.2 weight %; a carbon (C) content of not more than 0.05 weight %; a phosphorus (P) content of not more than 0.015 weight %; a silicon (Si) content of not more than 0.25 weight %; a magnesium (Mg) content of not more than 0.25 weight %; and a sulfur (S) content of not more than 0.01 weight %, making thermal treatments on the casted part so that the iron alloy has martensitic structure which makes up 90% or more of the total, said thermal treatments including: a solution heat treatment made on said part casted at a temperature of from 980 to 1050 degrees C. and accompanied by subsequent quenching; deep cooling made immediately after the quenching; and an aging treatment made at a temperature of from 518 to 558 degrees C.

7. (new) A golf club head comprising a main body and a face plate forming a club face and joined to the main body, wherein said face plate is made of a martensitic iron alloy having:

- a nickel (Ni) content of from 9.0 to 12.0 weight %;
- a chromium (Cr) content of from 11.0 to 12.5 weight %;
- a titanium (Ti) content of from 1.5 to 1.8 weight %;
- a molybdenum (Mo) content of from 0.75 to 1.2 weight %;
- a carbon (C) content of not more than 0.05 weight %;
- a phosphorus (P) content of not more than 0.015 weight %;
- a silicon (Si) content of not more than 0.25 weight %;
- a magnesium (Mg) content of not more than 0.25 weight %; and
- a sulfur (S) content of not more than 0.01 weight %.

8. (new) The golf club head according to claim 7, wherein the alloy of the face plate is provided with martensitic structure through thermal treatments which include:

- a solution heat treatment made at a temperature of from 980 to 1050 degrees C and accompanied by subsequent quenching;

deep cooling made immediately after the quenching;
and an aging treatment made at a temperature of from 518 to 558 degrees C.

9. (new) The golf club head according to claim 7, wherein the main body is also made of the martensitic iron alloy.

10. (new) The golf club head according to claim 8, wherein the main body is also made of the martensitic iron alloy, and the alloy of the main body is provided with martensitic structure through thermal treatments which include:

a solution heat treatment made at a temperature of from 980 to 1050 degrees C and
accompanied by subsequent quenching;
deep cooling made immediately after the quenching; and
an aging treatment made at a temperature of from 518 to 558 degrees C.